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5/14/79

MP 0900

During Inspection

DUANE MARINE CORPORATION

26 Washington St.

Perth Amboy, N. J.

SPILL PREVENTION, CONTROL AND

COUNTER MEASURES PLAN

Ed. MacCracken
Environmental Assessment Council Inc
1789 Jersey Ave.
846 7049

335007



SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN

PART I GENERAL INFORMATION

1. Name of facility DUANE MARINE CORPORATION
2. Type of facility Waste Oil Storage for Oil Spill Cleanup Operations
3. Location of facility 26 Washington Street, Perth Amboy, New Jersey
4. Name and address of owner or operator:
Name DUANE MARINE CORPORATION
Address 26 Washington Street
Perth Amboy, N. J.
5. Designated person accountable for oil spill prevention at facility:
Name and title Ed Lecarreux, President 201-826-9100 (24 hr.) 212-984-2638 Residence
6. Facility experienced a reportable oil spill event during the twelve months prior to Jan. 10, 1974 (effective date of 40 CFR, Part 112). (If YES, complete Attachment #1.) No

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

Signature _____
Name Ed Lecarreux
Title President

CERTIFICATION

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR, Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

(Seal)

William E. McCracken
Printed Name of Registered Professional Engineer
William E. McCracken
Signature of Registered Professional Engineer

Date 5-9-78 Registration No. 21804 State N. J.

**PART I
GENERAL INFORMATION**

7. Potential Spills — Prediction & Control:

	<u>Source</u>	<u>Major Type of Failure</u>	<u>Total Quantity (bbls)</u>	<u>Rate (bbls/hr)</u>	<u>Direction of Flow*</u>	<u>Secondary Containment</u>
1.	250,000 gal. storage tank	valve failures	5000	140	through 3" pipe, over dike, onto concrete parking/storage area	3"/6" curbing
2.	vacuum truck to/from tank operation	hose or hose con- nection	10	70	to concrete parking/ storage area	3"/6" curbing

Discussion: The probability of oil spill occurrence and entering the Arthur Kill is greatly reduced by the following factors:

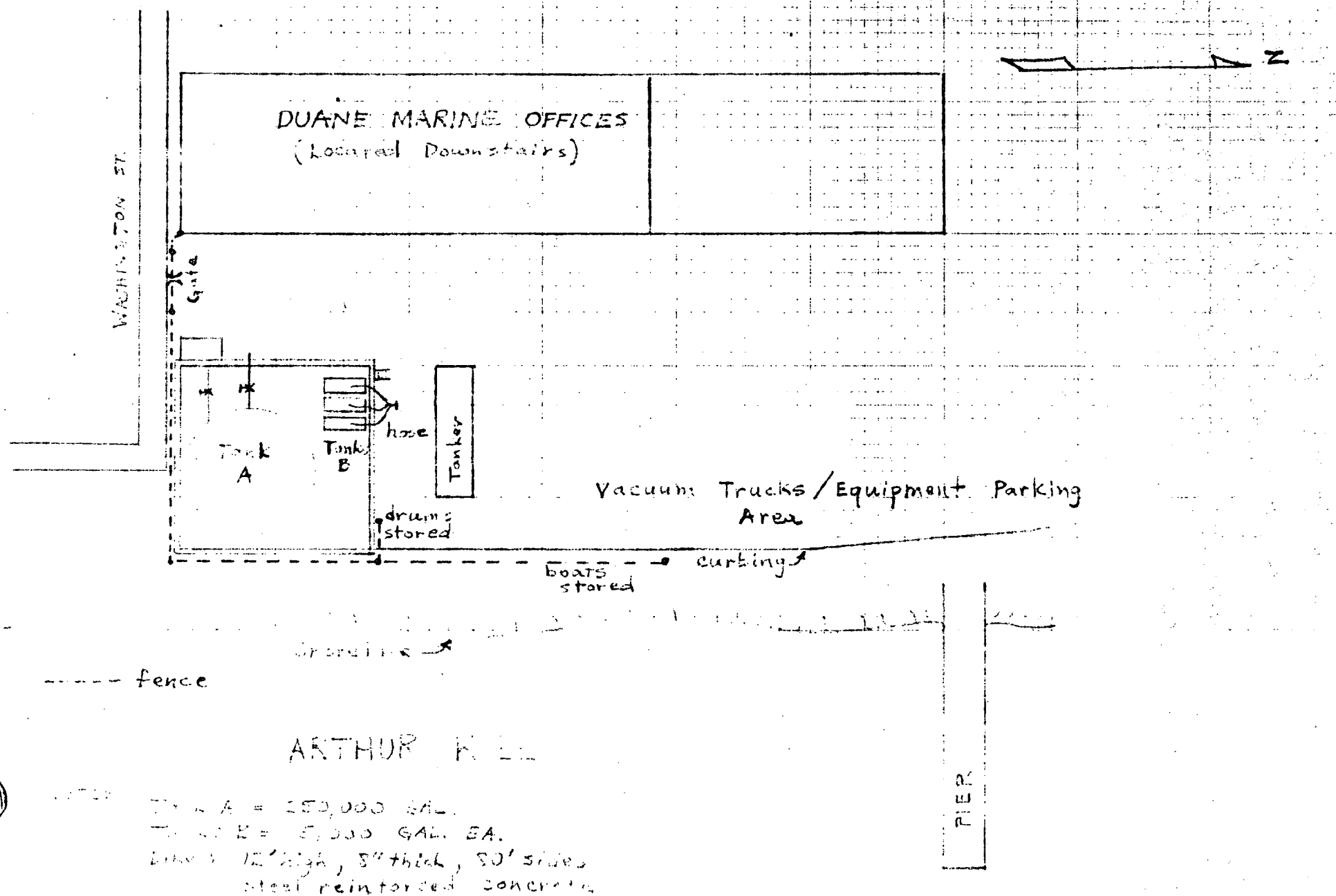
1. vacuum truck transferring operations to/from tanks are carefully monitored
2. valves on the pipeline from the 250,000 gal. tank will be locked closed after each operation and included on the security check-list
3. since Duane Marine is an oil spill cleanup contractor, spill control equipment/personnel are always on standby

*Attach map if appropriate.

Name of facility Duane Marine Corporation

Operator Duane Marine Corporation

FIGURE 1. Duane Marine Facility Layout



**PART I
GENERAL INFORMATION**

[Response to statements should be: YES, NO, or NA (Not Applicable).]

8. Containment or diversionary structures or equipment to prevent oil from reaching navigable waters are practicable. (If NO, complete Attachment #2.) yes

9. Inspections and Records

A. The required inspections follow written procedures. yes

B. The written procedures and a record of inspections, signed by the appropriate supervisor or inspector, are attached. yes

Discussion: Inspection of the storage tanks, valves and security features occurs daily and follow the written procedure/checklists contained herein.

Checklists are completed at the end of each work day wherein the tanks were in use, and are signed by the inspector and initialled by his supervisor and kept on file for three years.

10. Personnel, Training, and Spill Prevention Procedures

A. Personnel are properly instructed in the following:

(1) operation and maintenance of equipment to prevent oil discharges, and yes

(2) applicable pollution control laws, rules, and regulations. yes

Describe procedures employed for instruction: In that Duane Marine is a cleanup company that contracts with the government (USCG) as well as commercial, operation and maintenance of equipment is part of their business. A list of pollution control laws, rules and regulations is included in this plan and posted on the company bulletin board for their review.

B. Scheduled prevention briefings for the operating personnel are conducted frequently enough to assure adequate understanding of the SPCC Plan. yes

Describe briefing program: Operating personnel are briefed periodically as deemed necessary by management on the operational elements of the SPCC plan. However, since these elements are part of the everyday operations, these briefings may occur only several times each year.

Name of facility Duane Marine Corp.

Operator Duane Marine Corp.

**PART II, ALTERNATE A
DESIGN AND OPERATING INFORMATION
ONSHORE FACILITY (EXCLUDING PRODUCTION)**

A. Facility Drainage

1. Drainage from diked storage areas is controlled as follows (include operating description of valves, pumps, ejectors, etc. (Note: Flapper-type valves should not be used):

There is no drainage from the diked storage area. The dike walls are
12' high and 80' long, which can contain over 500,000 gal.
Rainwater accumulation will be removed via evaporation.

2. Drainage from undiked areas is controlled as follows (include description of ponds, lagoons, or catchment basins and methods of retaining and returning oil to facility):

All storage tanks are within the dike wall.

3. The procedure for supervising the drainage of rain water from secondary containment into a storm drain or an open watercourse is as follows (include description of (a) inspection for pollutants, and (b) method of valving security). (A record of inspection and drainage events is to be maintained on a form similar to Attachment #3):

Rainwater is removed only via evaporation.

Name of facility Duane Marine Corp.

Operator Duane Marine Corp.

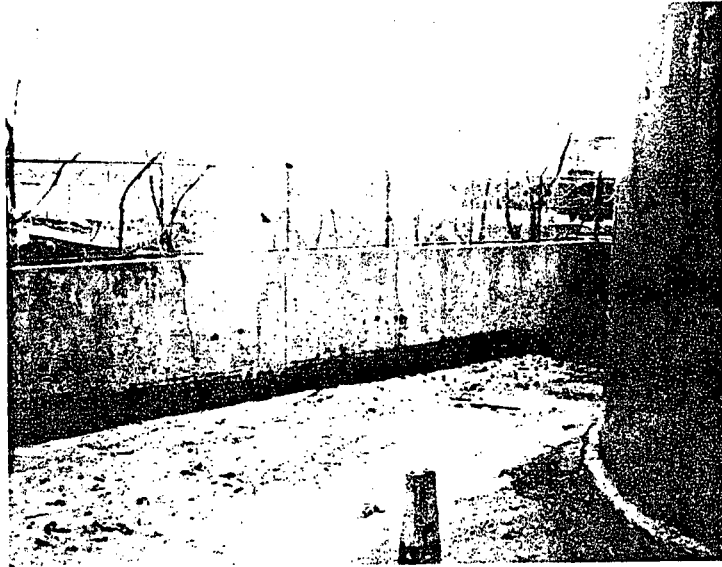


Figure 2. Concrete Dike Around Storage Tanks

**PART II, ALTERNATE A
DESIGN AND OPERATING INFORMATION
ONSHORE FACILITY (EXCLUDING PRODUCTION)**

[Response to statements should be: YES, NO, or NA (Not Applicable).]

B. Bulk Storage Tanks

1. Describe tank design, materials of construction, fail-safe engineering features, and if needed, corrosion protection: The 250,000 gal. tank is approximately 30' high, fixed top, steel construction, riveted seams, and sits on a concrete foundation. The outside surface is painted and oil is maintained in the tank. Fail-safe features include locking the valves closed to prevent outflow over the dike.
2. Describe secondary containment design, construction materials, and volume: The dike is constructed of steel reinforced concrete walls. The walls are 6" thick, 12' high, and 80' long. Some cracks have formed in the back wall and must be repaired to prevent leakage. The floor is compacted clay-type soil. This secondary containment dike has a volume capacity of over 500,000 gal.
3. Describe tank inspection methods, procedures, and record keeping: The tank's inside surfaces were inspected for corrosion and structural soundness October, 1977. The tank is regularly inspected visually for signs of outward corrosion as part of the security/maintenance routine procedures. Records are not kept unless signs of corrosion are noted and repairs become necessary.
4. Internal heating coil leakage is controlled by one or more of the following control factors:
 - (a) Monitoring the steam return or exhaust lines for oil. N/A
Describe monitoring procedure: There is no internal heating coil.
 - (b) Passing the steam return or exhaust lines through a settling tank, skimmer, or other separation system. N/A
 - (c) Installing external heating systems. N/A
5. Disposal facilities for plant effluents discharged into navigable waters are observed frequently for indication of possible upsets which may cause an oil spill event. N/A
Describe method and frequency of observations: Disposal of oily wastes will be via vacuum trucks and hauling to waste oil dealers.

Name of facility Duane Marine Corp.

Duane Marine Corp.

Operator _____

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**PART II, ALTERNATE A
DESIGN AND OPERATING INFORMATION
ONSHORE FACILITY (EXCLUDING PRODUCTION)**

[Response to statements should be: YES, NO, or NA (Not Applicable).]

C. Facility Transfer Operations, Pumping, and In-plant Process

1. Corrosion protection for buried pipelines:

- (a) Pipelines are wrapped and coated to reduce corrosion. N/A
- (b) Cathodic protection is provided for pipelines if determined necessary by electrolytic testing. N/A
- (c) When a pipeline section is exposed, it is examined and corrective action taken as necessary. N/A

2. Pipeline terminal connections are capped or blank-flanged and marked if the pipeline is not in service or on standby service for extended periods.

N/A

Describe criteria for determining when to cap or blank-flange: _____

There is no terminal

3. Pipe supports are designed to minimize abrasion and corrosion and allow for expansion and contraction.

Describe pipe support design: _____

All pipelines are contained within the dike walls.

4. Describe procedures for regularly examining all above-ground valves and pipelines (including flange joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces):

When valves, joints and hoses become worn and leaky, they will be replaced or repaired. Inspections will be visual and will occur during each transfer operation.

5. Describe procedures for warning vehicles entering the facility to avoid damaging above-ground piping: N/A

All pipelines are contained within the dike walls.

Name of facility Duane Marine Corp.

Operator Duane Marine Corp.

**PART II, ALTERNATE A
DESIGN AND OPERATING INFORMATION
ONSHORE FACILITY (EXCLUDING PRODUCTION)**

[Response to statements should be: YES, NO, or NA (Not Applicable).]

D. Facility Tank Car & Tank Truck Loading/Unloading Rack

Tank car and tank truck loading/unloading occurs at the facility. (If YES, complete 1 through 5 below.)

yes

1. Loading/unloading procedures meet the minimum requirements and regulations of the Department of Transportation.

yes

2. The unloading area has a quick drainage system.

no

3. The containment system will hold the maximum capacity of any single compartment of a tank truck loaded/unloaded in the plant.

yes

Describe containment system design, construction materials, and volume:

The loading/unloading area is on steel-reinforced concrete construction with a 3"/6" curb on the edge nearest the Arthur Kill. This surface area is large and could easily contain the contents of a vacuum truck.

4. An interlocked warning light, a physical barrier system, or warning signs are provided in loading/unloading areas to prevent vehicular departure before disconnect of transfer lines.

No.

Describe methods, procedures, and/or equipment used to prevent premature vehicular departure:

A minimum of two are involved in each transfer operation--the truck driver and a valve operator. Wooden stops will be set at the front wheels to prevent premature departure.

5. Drains and outlets on tank trucks and tank cars are checked for leakage before loading/unloading or departure.

Yes

Name of facility Duane Marine Corp.

Operator Duane Marine Corp.

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**PART II, ALTERNATE A
DESIGN AND OPERATING INFORMATION
ONSHORE FACILITY (EXCLUDING PRODUCTION)**

[Response to statements should be: YES, NO, or NA (Not Applicable).]

E. Security

1. Plants handling, processing, or storing oil are fenced. yes
2. Entrance gates are locked and/or guarded when the plant is unattended or not in production. yes
3. Any valves which permit direct outward flow of a tank's contents are locked closed when in non-operating or standby status. no
4. Starter controls on all oil pumps in non-operating or standby status are:
(a) locked in the off position; no
(b) located at site accessible only to authorized personnel. yes
5. Discussion of items 1 through 4 as appropriate: _____

Locks will be placed on the valves that control oil discharge from the tanks. They will be locked closed when in non-operating or standby status.

6. Discussion of the lighting around the facility: _____

Spot lights are used to light the storage tank area at night. Lighting is considered sufficient to discourage vandalism and visually detect oil spillage.

Name of facility Duane Marine Corp.

Operator Duane Marine Corp.

ROUTINE INSPECTION CHECK - LIST

Inspector,

Date

Person-in-charge
(Manager)

Date

1. Security Locks-

Gate Valves for:

Tank A
Tanks B

Switches for pump motors

Gates

Office Building

Waste Oil Tanker Trailers and Trucks (doors and valves)

2. Security Lights on at night

3. Pipelines, hoses, blank flanges, caps and joints for leaks and properly secured.

4. Tanks and appurtenances for signs of corrosion.

5. Accumulation of oil and rain water within the dike.

6. Dike for cracks and leaks.

SPCC PLAN SUMMARY

*original SPCC
Plan provided to me*

FACILITY

The facility owned and operated by Duane Marine Corp. is used for storage of waste oils. Duane Marine is an oil spill cleanup contractor. The fact that cleanup equipment and trained personnel are always on stand-by at the facility virtually guarantees control of potential spill situations as listed under part 1, item 7, and constitutes the countermeasures portion of this plan. Whereas reasonable response time for most storage facilities is several hours for professional cleanup services, here it is immediate.

IMPROVEMENTS

Several improvements/repairs should be implemented to minimize the risk of having an oil spill. There are:

1. Repair cracks and leak-proof the concrete dike wall shown in Figure 2. ✓
2. Increase the curbing around the equipment wash-down area (also waste oil transfer area) to a uniform 6" that will prevent excess oily water from flowing into the Arthur Kill. ()

NOTIFICATION

The following authorities will be notified immediately in case of an oil spill:

1. U.S. Environmental Protection Agency, Region II, Edison, New Jersey. Mr. Paul Elliot, 24-hour emergency phone: 201-548-8730.
2. U.S. Coast Guard, National Response Center Washington, D.C. 800-424-8801 (24 hour).
3. U.S. Coast Guard, Governors Island, N.Y. Duty Officer: 212-264-4800.
4. New Jersey Department of Environmental Protection Trenton, New Jersey, Mr. David Longstreet 24-hour emergency phone: 609-292-7172